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ŤŤŤ	RRR RRR	AAA AAA	ččč	ĒĒĒ
ŤŤí	RRRRRRRRRRRR	AAA AAA	ČČČ	ÈÈÈEEEEEEEE
ŤŤ	RRRRRRRRRRR	AAA AAA	ČČČ	EEEEEEEEEE
ŤŦŤ	RRRRRRRRRRR	AAA AAA	ŠŠŠ	EEEEEEEEEE
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ŤŤ	RRR RRR	AAA AAA	ččč	ĔĔĔ
ŤŤŤ	RRR RRR	AAA AAA	ŠŠŠ	EEE
ŤŤŤ	RRR RRR	AAA AAA	555	ÈÈÈ
ήŤŤ	RRR RRR	AAA AAA	ງງງງງງງງງງ	ĔĔĔEEEEEEEEEE
ŤŤŤ	RRR RRR	AAA AAA	555555555555555555555555555555555555555	EEEEEEEEEEEE
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\$		RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
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TBK

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STRUCDEF -- DECLARATION FILE FOR DATA STRUCTURE DEFINITION AND ACCESS MACROS USED IN THE VAX DEBUGGER

Version:

'V04-000'

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WRITTEN BY

Bert Beander August, 1981.

MODULE FUNCTION:

This REQUIRE file contains all macros used in defining and accessing data structures (BLISS BLOCKs) in the VAX Debugger. These symbolic names should always be used in BLISS Field-References.

DATA STRUCTURE DEFINITION AND ACCESS

The following macros must be used in defining field names for all data structures in the Debugger. These macros supply the position, size, and sign-extension values when used in FIELD declarations for BLOCK and BLOCKVECTOR data structures. The various generic forms (as specified by the letters in the names) are as follows:

A Materialized address
L Longword
W Zero-extended word
B Zero-extended byte
V Zero-extended bit field
SW Sign-extended word
SB Sign-extended byte
SV Jign-extended bit field

The "A" form should be used whenever the field being defined is such that only the address of the field may be materialized in a structure reference; that is, fetch and store operations on the field are not valid. An example of such a field is an ASCII string.

Each of the 'V' and 'SV' forms take one or two parameters. The first parameter is the bit position within the longword (or byte) and the second is the field size in bits. The second parameter is optional; if omitted, it defaults to 1. Thus V_(5) means bit 5 while V_(5,3) means the 3-bit field starting at bit 5 and ending at bit 7. Bit positions are counted from the low-order (least significant) end of the longword, starting at zero.

The following data structure picture shows the locations of the various fields that can be specified. Note how the bit positions are numbered along the top of the illustration.

0	†					
1	! U1	_	W()		
2	B3_	82_	B1_	B0_		

i MACRO

 $A_{\perp} = 0, 0, 0 X,$! Address of a longword

A0_ = 0. 0. 0 %. ! Address of byte 0 A1_ = 8, 0, 0 %. ! Address of byte 1

! END OF STRUCDEF.REQ

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